

OPTICAL FIBER AND ACID DETECTING SYSTEM

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Abstract

PROBLEM TO BE SOLVED: To provide an acid detecting system which is capable of easily detecting leakage of an acid at all times by using an optical fiber.

SOLUTION: An OTDR device 1 is connected to an input end of an optical transmission path 2. The acid detecting optical fiber 3 coated with a resin containing metallic powder is connected to the output end of the optical transmission path 2. The acid detecting optical fiber 3 is laid in a place installed with an acid storage tank, etc., where the leakage of the acid is expected. When the acid leaks and this acid is dropped to the acid detecting optical fiber 3, the light transmission loss of the acid detecting optical fiber 3 increases and the increase in the light transmission loss is detected by the OTDR device 1.

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